Figure 1

Figure 2
PRIOR ART

Figure 3
PRIOR ART

$$d_0 = 0.76 \cdot \lambda/\alpha$$
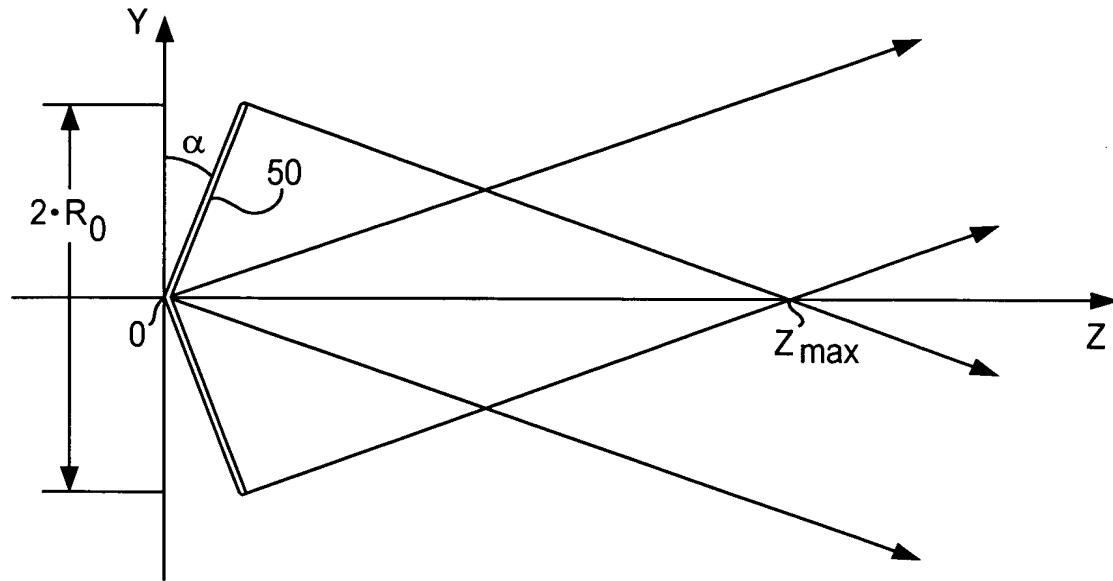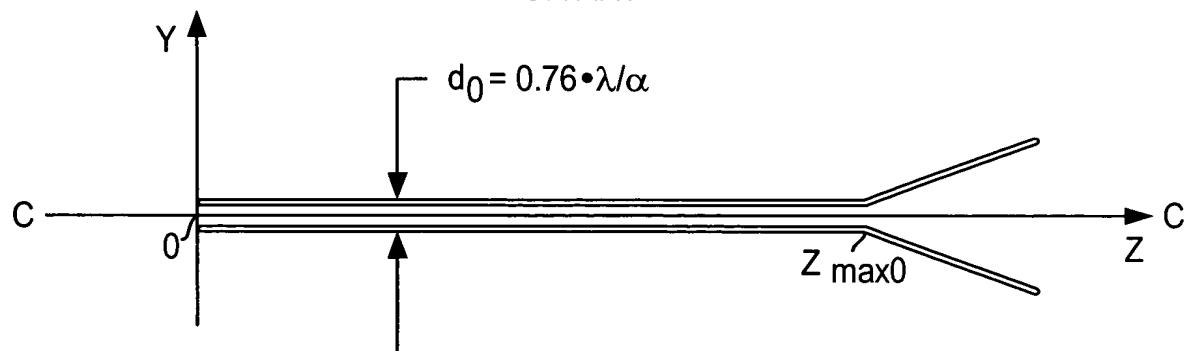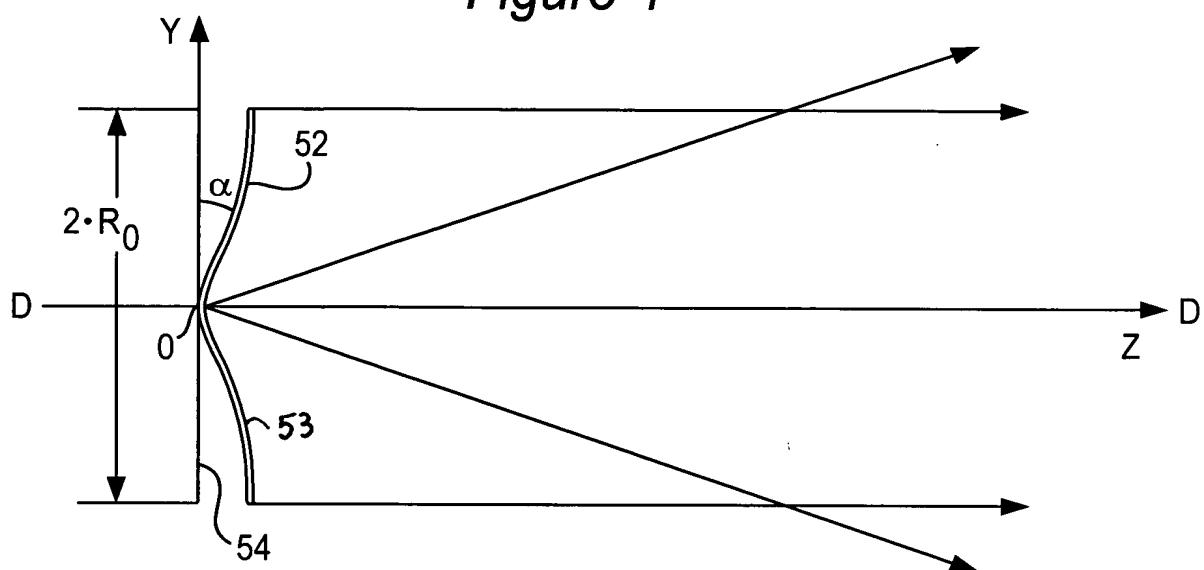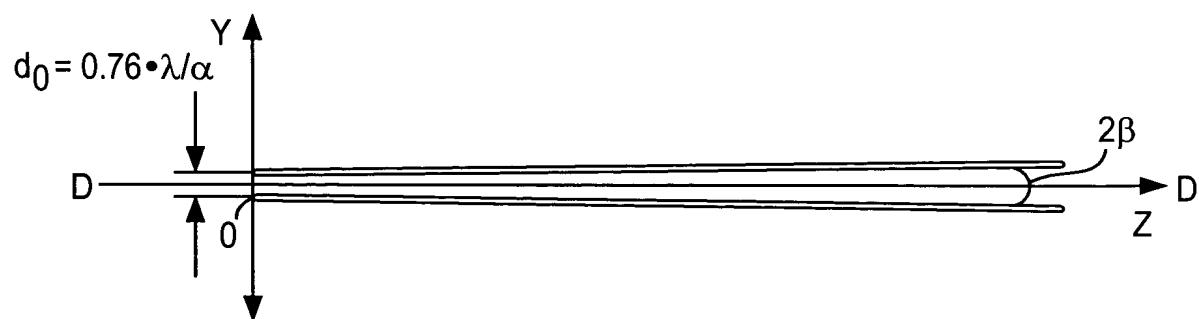
Figure 4

Figure 5

Figure 6(a)
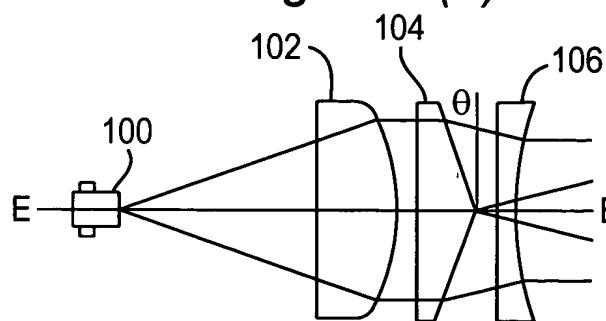
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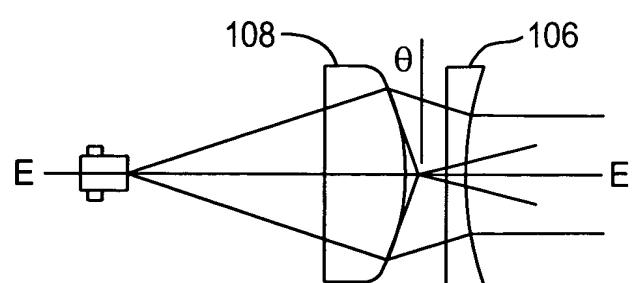
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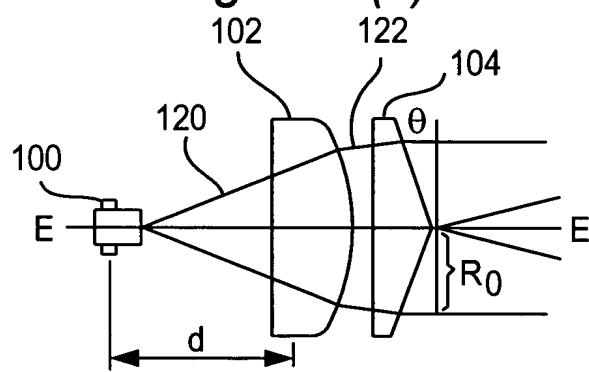
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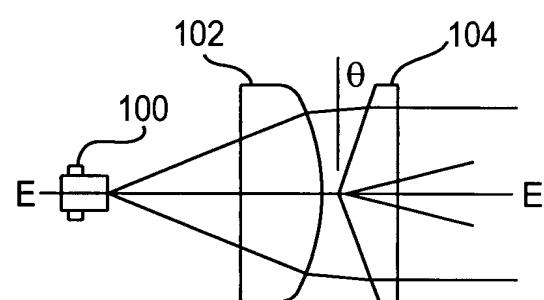
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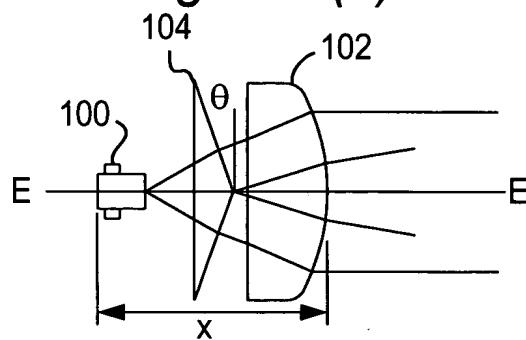
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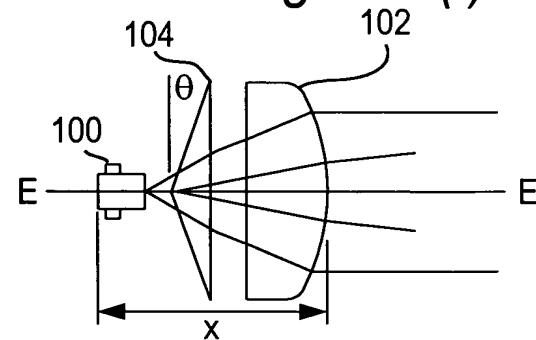
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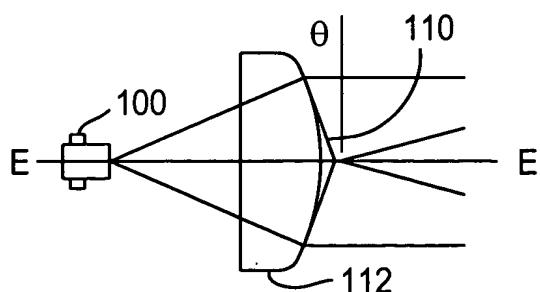
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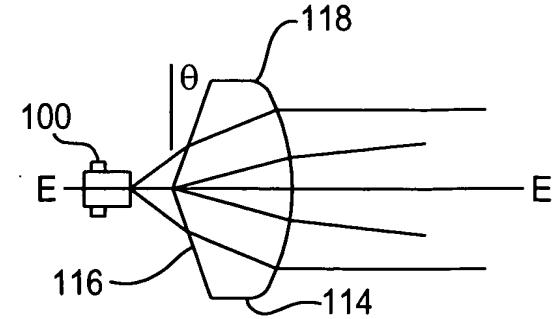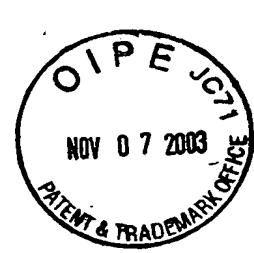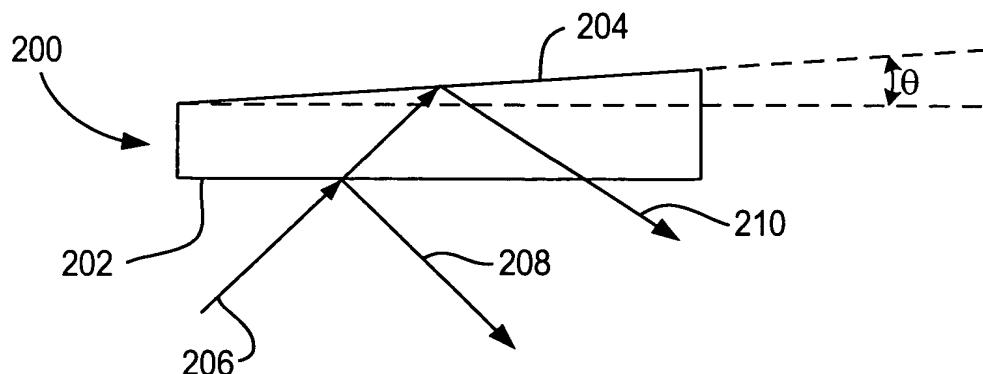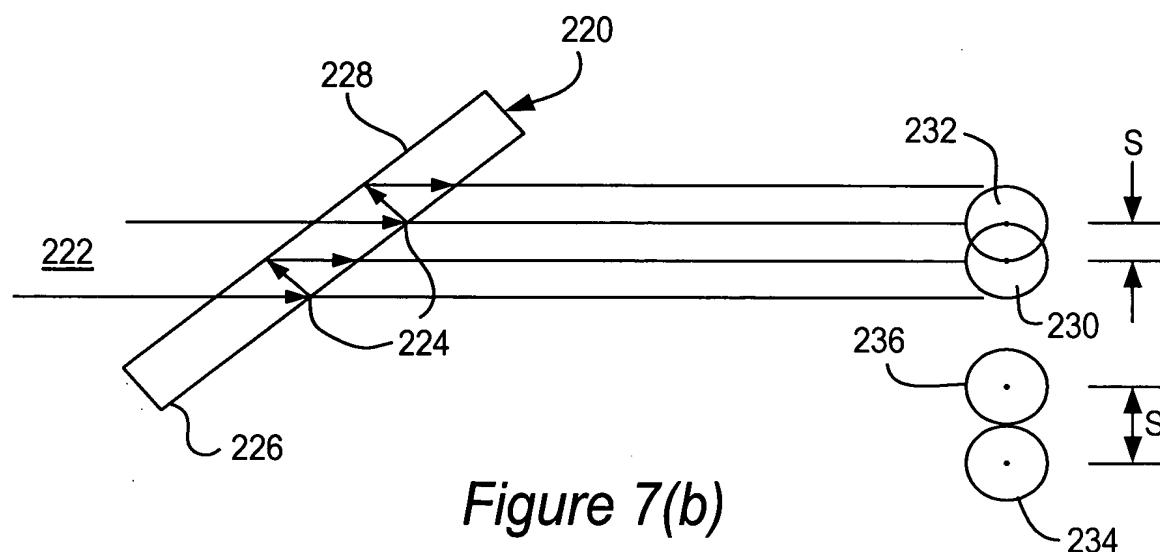
Figure 7(a)

Figure 7(b)
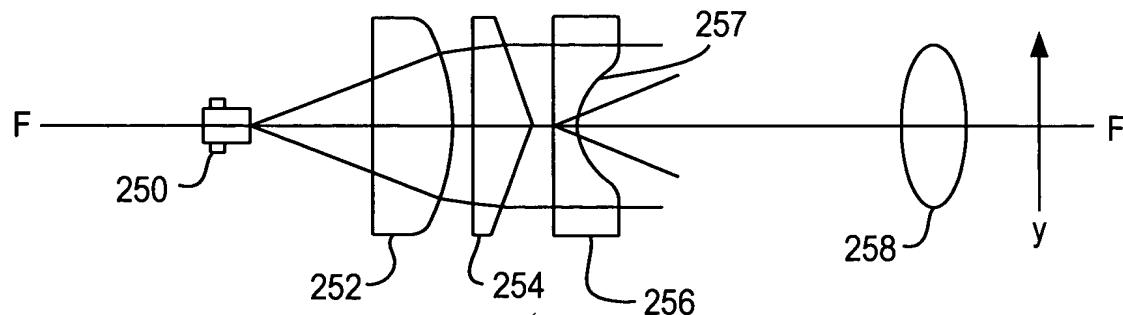
Figure 8

Figure 9(a)

FOCUSING PROFILE : x(r), y(b)

HORIZONTAL
DIAMETER

VERTICLE
DIAMETER

Figure 9(b)

MTF: 7.5 10.0 15.0 20.0 40.0 55.0 70.0 100.0 mil

DISTANCE FROM NOSE (inches)

Figure. 10(a)

INTESITY DISTRIBUTION:
0.32682 mm 0.96826 mm

Figure 10(b)

LINE SPREAD FUNCTION, x(r), y(b)

VERTICAL LSF

HORIZONTAL LSF

Figure 10(c)

MTF

HORIZONTAL MTF
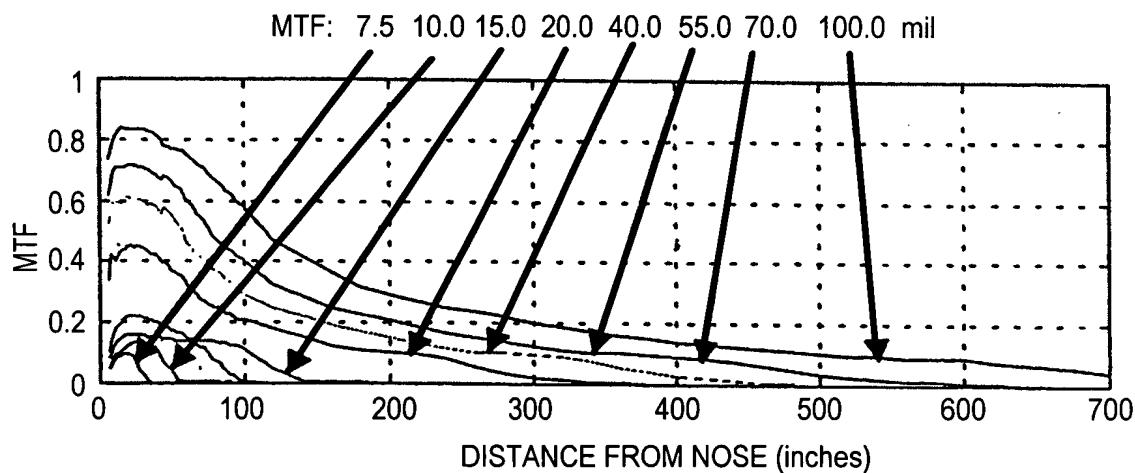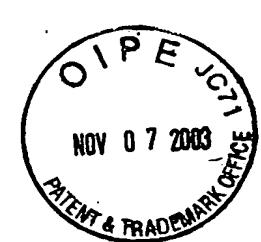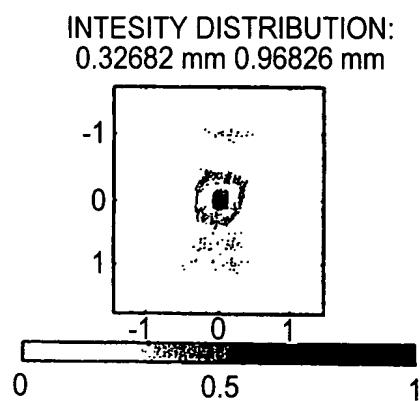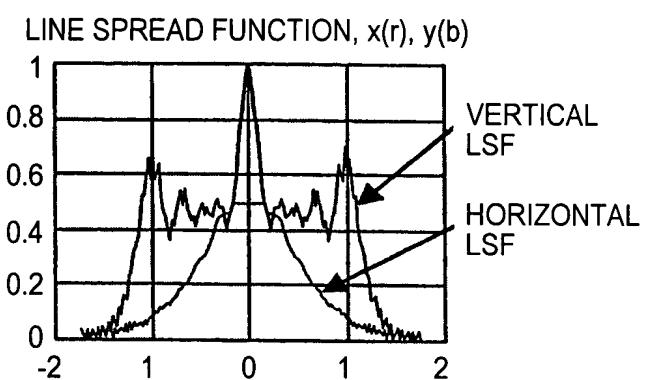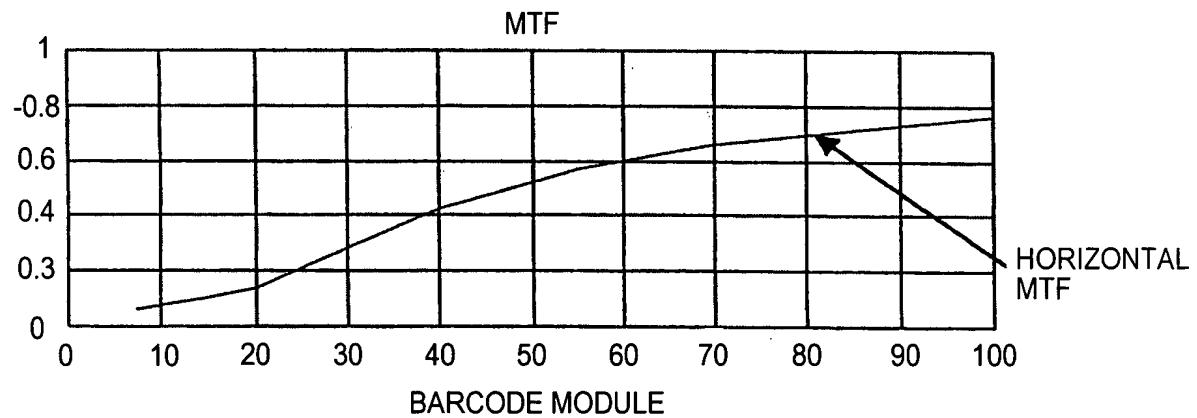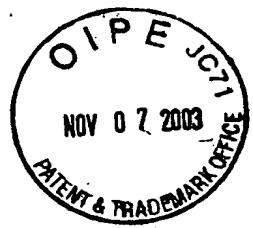
BARCODE MODULE

Figure 11(a)

INTESITY DISTRIBUTION:
0.35683 mm 1.344 mm
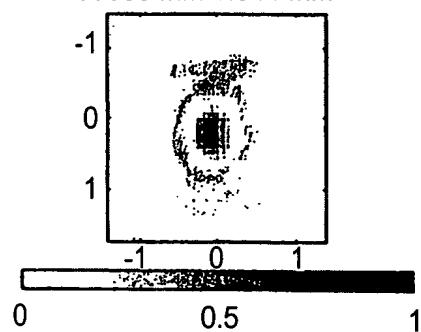
Figure 11(b)

LINE SPREAD FUNCTION
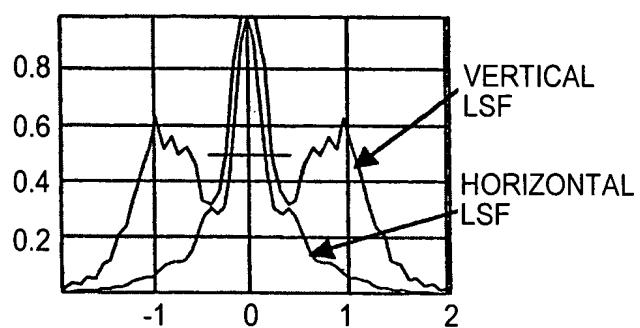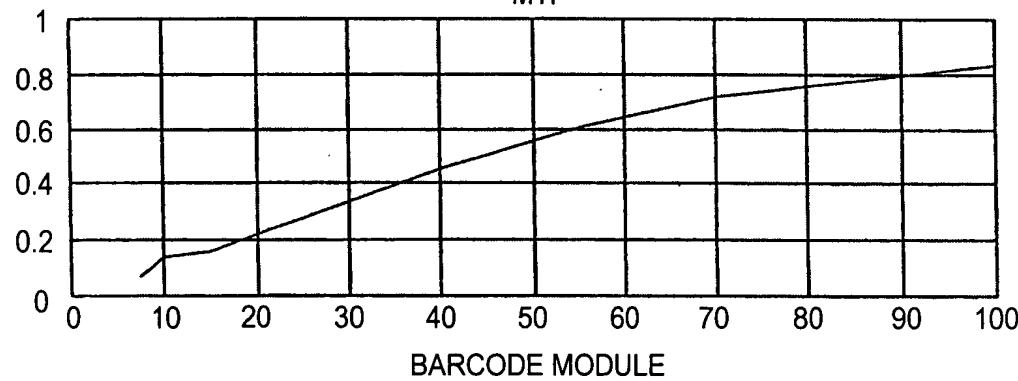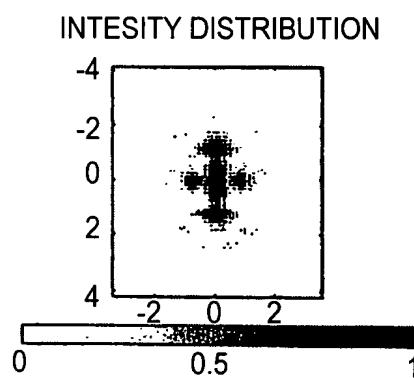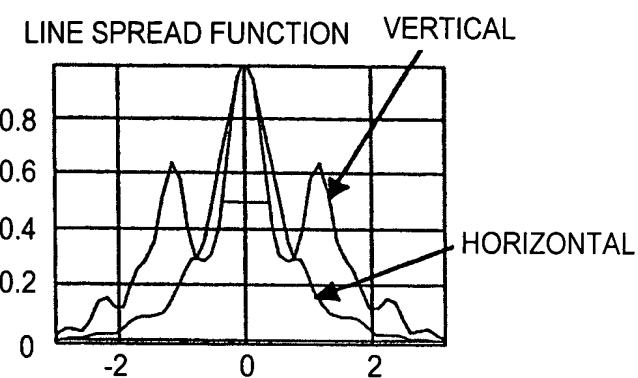
VERTICAL
LSF

HORIZONTAL
LSF

Figure 11(c)

MTF

BARCODE MODULE

Figure 12(a)

INTESITY DISTRIBUTION

Figure 12(b)

LINE SPREAD FUNCTION   VERTICAL

HORIZONTAL

Figure 12(c)

MTF

BARCODE MODULE

Figure 13(a)

INTESITY DISTRIBUTION

Figure 13(b)

LINE SPREAD FUNCTION

VERTICAL

HORIZONTAL

Figure 13(c)

MTF

BARCODE MODULE

Figure 14(a)

INTESITY DISTRIBUTION

Figure 14(b)

LINE SPREAD FUNCTION

VERTICAL

HORIZONTAL

MTF
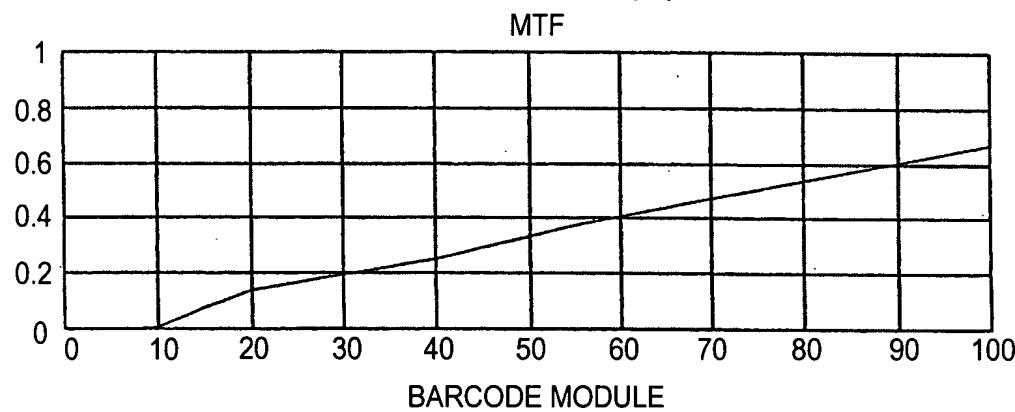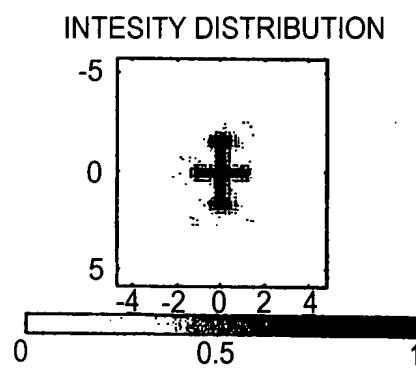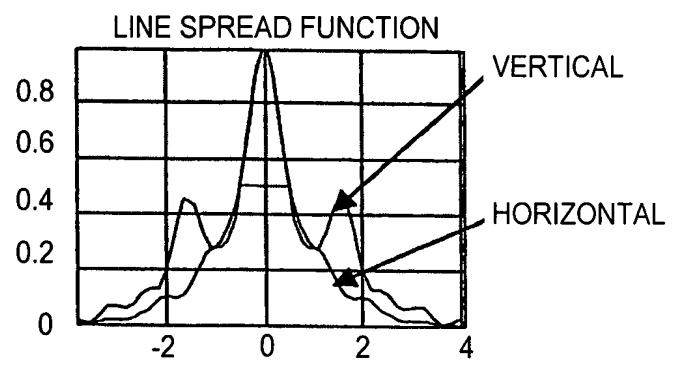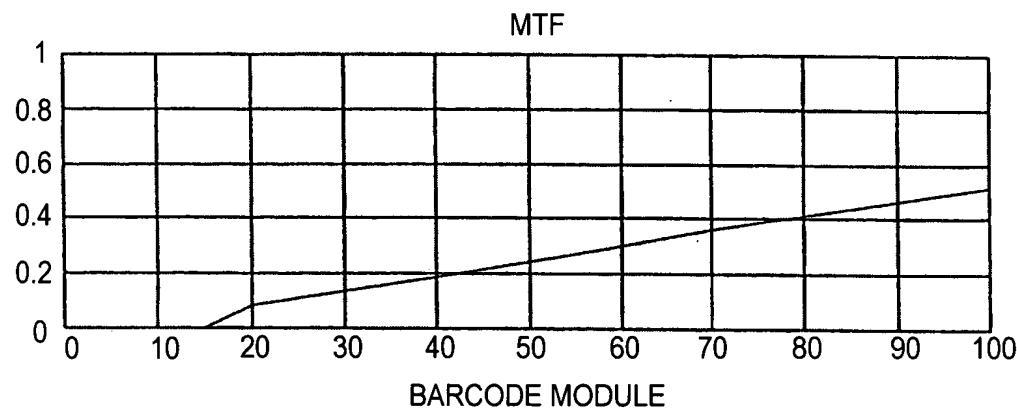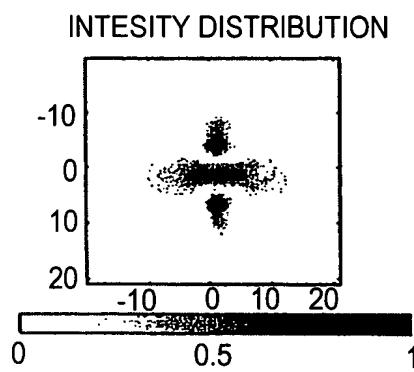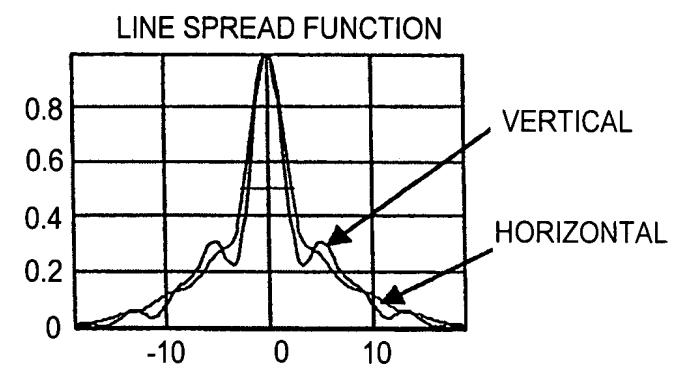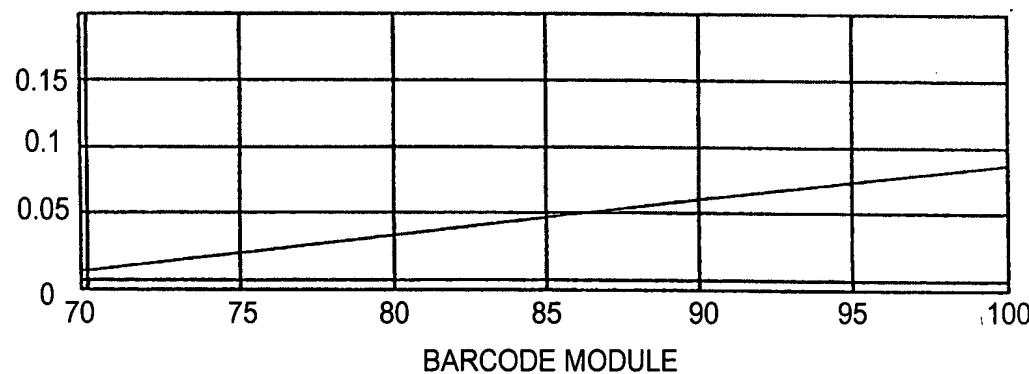
BARCODE MODULE
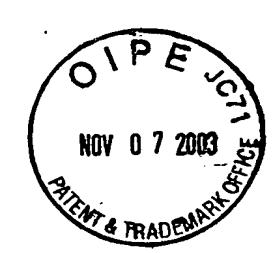
Figure 14(c)
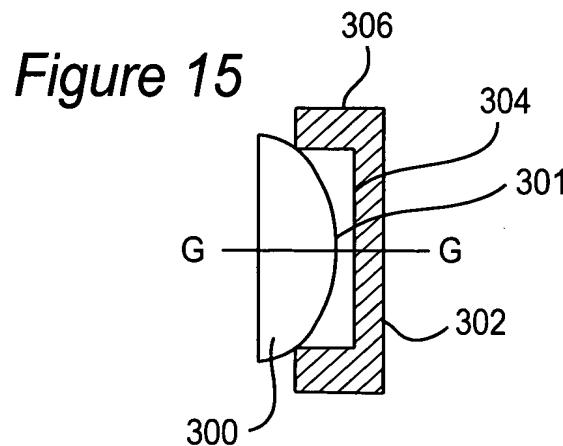
Figure 15
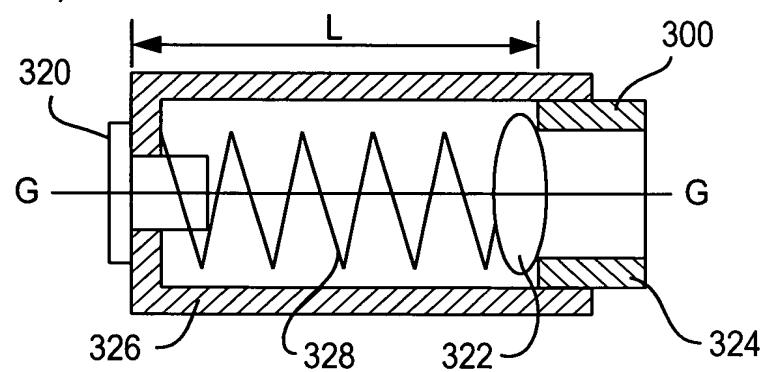
Figure 16
(PRIOR ART)

FIG. 17

Figure 18

Figure 18(a)